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December 8, 1964PROCESSOR DEVELOPMENT PROGRAM

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[] is aiming to have several major things accomplished by March 1, 1965.

- a) The clean room completed, tested and ready for operation
- b) Liquid bearing design parameters established: pressure profile, flow profile, cushion load, optimum slot design, cushion height vs film speed, etc.
- c) Floating tow rig operating and producing data on film drag.
- d) A tank modular concept established with a spacial mock up completed to illustrate the features.
- e) Compilation of known film data applicable to the program.

March 1 is the earliest that [] thinks he will have significant results. He does not believe the accomplishment will be definitive by February 1. [] has relegated the pressure drop tests of the smooth-bore stainless pipe and fittings to a lower priority. STAT

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The clean room installation is in full swing and is absorbing about half of [] time. The floor steel is in place and the flooring (2 thicknesses of 3/4" plywood) installed, and levelled. The vinyl tile floor covering is nearly complete.

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The single slot liquid bearing tests have continued. By producing a pressure profile along the slot which has high pressure at the ends and lower pressure in the middle they have noted an encouraging self-centering tendency. The opposite profile (i.e. high pressure at the center and low pressure at the ends) produces an unstable centering situation and the film tends to slide off the bearing.

The November progress report was on time, manpower on the job has increased and the whole pace of the program has picked up.

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